

PATENT ABSTRACTS OF JAPAN

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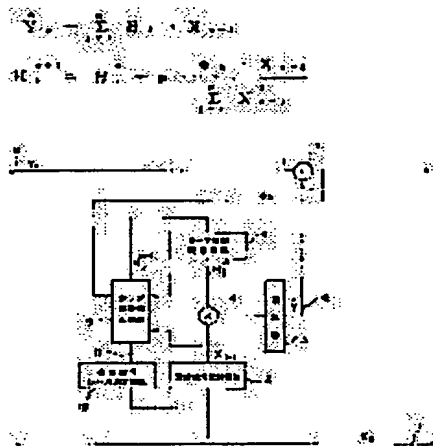
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(54) ECHO CANCELLER

(57)Abstract:

PURPOSE: To obtain a sufficient echo cancelling quantity by deciding it from the overload state of a reception signal that an echo path is nonlinear and stopping the correction of the tap coefficient.

CONSTITUTION: A reception signal X_n fed from a reception input terminal 1 is inputted to a reception signal storage circuit 2. Then a transversal filter composed of a multiplier circuit 4 and an accumulator 5 generates a pseudo echo signal Y' 6 by the convolution integration expressed in equation I, where (n) is a time, (j) is a tap number and N is a tap number. The echo is cancelled at an adder 7 by subtracting the pseudo echo signal Y'_n from a transmission signal Y_n supplied from a transmission input terminal 8. Moreover, a tap coefficient correction circuit 9 applies the arithmetic operation expressed in equation II to obtain the tap coefficient at a time of $(n+1)$, where α is a correction coefficient and e_n is an output of the adder 7, representing a residual echo. When the reception signal is in the overload state, the correction circuit is stopped.



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